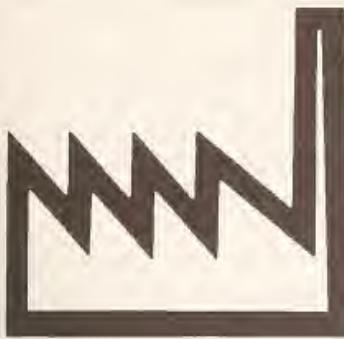


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PRELIMINARY REPORT INDUSTRY SERIES

1987 Census of Manufactures

MC87-I-20C(P)
Issued May 1989

PRESERVED FRUITS AND VEGETABLES

Industries 2032, 2033, 2034, 2035, 2037, and 2038

INTRODUCTION

This report presents preliminary statistics from the 1987 Census of Manufactures for those establishments classified in the industries listed above. These data will be superseded by a more comprehensive final paperbound report. The method of data collection and use of administrative data are discussed in detail in the appendix.

All dollar figures included in this report are at prices current for the year specified and, therefore, unadjusted for changes in price levels. Consequently, when making comparisons to prior years, users should take into consideration the inflation that has occurred.

The definitions of these industries are the same as those used in the 1987 Standard Industrial Classification (SIC) Manual.¹

INDUSTRY 2032, CANNED SPECIALTIES

In the 1987 Census of Manufactures, Industry 2032, Canned Specialties, had employment of 24.5 thousand. The employment figure was 5 percent above the 23.4 thousand reported in 1982. Compared with 1986, employment in 1987 decreased 1 percent. The 1986 data are based on the Bureau's annual survey of manufactures (ASM), which is a sample survey conducted each year between censuses.

The total value of production for establishments classified in this industry was \$5.4 billion.

¹Standard Industrial Classification Manual: 1987. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

Address inquiries to Bureau of the Census, Industry Division, Washington, DC 20233, or call Don Wheeler (301) 763-2510.



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INDUSTRY 2034, DEHYDRATED FRUITS, VEGETABLES, AND SOUPS

In the 1987 Census of Manufactures, Industry 2034, Dehydrated Fruits, Vegetables, and Soups, had employment of 10.1 thousand. The employment figure was 26 percent below the 13.6 thousand reported in 1982. Compared with 1986, employment in 1987 decreased 17 percent. The 1986 data are based on the Bureau's annual survey of manufactures (ASM), which is a sample survey conducted each year between censuses.

The total value of production for establishments classified in this industry was \$1.8 billion.

In 1987, establishments in this industry accounted for 81 percent of products considered primary to the industry regardless of the industry in which they were produced (coverage ratio). In 1982, the coverage ratio was 93 percent. The products primary to this industry appear in table 2 and aggregated to \$2.1 billion in 1987.

The cost of materials and services used by establishments in this industry amounted to \$927.9 million in 1987. Data on specific materials consumed appear in table 3.

INDUSTRY 2035, PICKLES, SAUCES, AND SALAD DRESSINGS

In the 1987 Census of Manufactures, Industry 2035, Pickles, Sauces, and Salad Dressings, had employment of 21.0 thousand. The employment figure was 5 percent below the 22.0 thousand reported in 1982. Compared with 1986, employment in 1987 decreased 9 percent. The 1986 data are based on the Bureau's annual survey of manufactures (ASM), which is a sample survey conducted each year between censuses.

The total value of production for establishments classified in this industry was \$4.9 billion.

In 1987, establishments in this industry accounted for 84 percent of products considered primary to the industry regardless of the industry in which they were produced (coverage ratio). In 1982, the coverage ratio was 83 percent. The products primary to this industry appear in table 2 and aggregated to \$4.5 billion in 1987.

The cost of materials and services used by establishments in this industry amounted to \$2.5 billion in 1987. Data on specific materials consumed appear in table 3.

INDUSTRY 2037, FROZEN FRUITS AND VEGETABLES

In the 1987 Census of Manufactures, Industry 2037, Frozen Fruits and Vegetables, had employment of 49.7 thousand. The employment figure was 4 percent above the 47.7 thousand reported in 1982. Compared with 1986, employment in 1987 increased 7 percent. The 1986 data are based on the Bureau's annual survey of manufactures (ASM), which is a sample survey conducted each year between censuses.

The total value of production for establishments classified in this industry was \$6.6 billion.

In 1987, establishments in this industry accounted for 93 percent of products considered primary to the industry regardless of the industry in which they were produced (coverage ratio). In 1982, the coverage ratio also was 93 percent. The products primary to this industry appear in table 2 and aggregated to \$6.2 billion in 1987.

The cost of materials and services used by establishments in this industry amounted to \$3.7 billion in 1987. Data on specific materials consumed appear in table 3.

INDUSTRY 2038, FROZEN SPECIALTIES, N.E.C.

In the 1987 Census of Manufactures, Industry 2038, Frozen Specialties, N.E.C., had employment of 37.1 thousand.

The total value of production for establishments classified in this industry was \$5.6 billion.

In 1987, establishments in this industry accounted for 94 percent of products considered primary to the industry regardless of the industry in which they were produced (coverage ratio). The products primary to this industry appear in table 2 and aggregated to \$5.2 billion in 1987.

The cost of materials and services used by establishments in this industry amounted to \$2.8 billion in 1987. Data on specific materials consumed appear in table 3.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in the tables in this publication:

-	Represents zero.
(D)	Withheld to avoid disclosing data for individual companies; data are included in higher level totals.
(NA)	Not available.
(NC)	Not comparable.
(S)	Withheld because estimate did not meet publication standards on the basis of either the response rate or a consistency review.
(X)	Not applicable.
(Z)	Less than half the unit shown.
do	Ditto.
n.e.c.	Not elsewhere classified.
n.s.k.	Not specified by kind.
pt.	Part.
r	Revised.
SIC	Standard Industrial Classification.

Other abbreviations, such as lb, gal, yd, doz, bbl, and s tons, are used in the customary sense.

CONTACTS FOR DATA USERS

Subject Area	Contact	Phone	Import/Export Publications	Foreign Trade Division	(301) 763-5140
Census/ASM Durables Nondurables	Kenneth Hansen Michael Zampogna	(301) 763-7304 (301) 763-2510	Industry Analysis and Forecasts	International Trade Administration	(202) 377-4356
Current Industrial Reports Durables Nondurables	Malcolm Bernhardt Thomas Flood	(301) 763-2518 (301) 763-5911			

Table 1. Historical Statistics for the Industry: 1987 and Earlier Years

[Excludes data for auxiliaries. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix.]

Year ¹	Com- panies ² (no.)	All establishments ³		All employees		Production workers			Value added by manufac- ture ⁴ (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expendi- tures ⁴ (million dollars)	End-of- year inven- tories ⁴ (million dollars)	Ratios	
		Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						Speci- aliza- tion (per- cent)	Cover- age (per- cent)
INDUSTRY 2032, CANNED SPECIALTIES^s															
1987 Census	177	206	86	24.5	526.0	19.5	38.3	396.7	2 661.9	2 703.3	5 364.5	148.7	726.6	78	92
1986 ASM	(NA)	(NA)	(NA)	24.7	513.2	19.6	38.6	383.2	2 326.3	2 629.9	4 957.6	178.8	670.2	(NA)	(NA)
1985 ASM	(NA)	(NA)	(NA)	24.2	476.9	19.7	37.0	366.9	2 161.2	2 638.4	4 801.7	113.6	764.9	(NA)	(NA)
1984 ASM	(NA)	(NA)	(NA)	24.1	451.6	19.6	37.9	348.1	2 158.9	2 631.0	4 784.0	101.4	835.8	(NA)	(NA)
1983 ASM	(NA)	(NA)	(NA)	24.8	443.8	20.3	40.0	337.8	1 958.4	2 410.0	4 370.1	79.1	706.1	(NA)	(NA)
1982 Census	171	198	88	23.4	392.4	19.0	37.0	297.6	1 769.3	2 372.0	4 140.8	154.3	638.4	78	90
1981 ASM	(NA)	(NA)	(NA)	24.1	373.2	19.7	38.4	286.2	1 538.4	2 316.9	3 851.4	68.4	615.2	(NA)	(NA)
1980 ASM	(NA)	(NA)	(NA)	25.0	362.3	20.3	40.8	280.3	1 414.1	2 160.4	3 573.6	69.5	612.4	(NA)	(NA)
1979 ASM	(NA)	(NA)	(NA)	26.3	345.1	21.5	42.8	265.5	1 308.9	2 051.5	3 361.0	73.1	579.2	(NA)	(NA)
1978 ASM	(NA)	(NA)	(NA)	26.6	325.7	21.6	44.4	253.7	1 243.0	1 920.2	3 162.9	59.2	567.7	(NA)	(NA)
1977 Census	172	203	88	26.4	296.5	21.5	42.4	224.3	1 142.6	1 687.7	2 829.2	46.7	527.8	80	89
1976 ASM	(NA)	(NA)	(NA)	28.9	286.3	23.9	45.0	214.0	1 123.4	1 633.3	2 757.3	41.7	475.7	(NA)	(NA)
1975 ASM	(NA)	(NA)	(NA)	27.5	265.8	22.3	45.3	200.3	1 057.0	1 545.4	2 590.3	28.0	464.3	(NA)	(NA)
1974 ASM	(NA)	(NA)	(NA)	29.2	248.9	23.6	46.9	189.8	887.2	1 507.8	2 382.0	41.1	485.7	(NA)	(NA)
1973 ASM	(NA)	(NA)	(NA)	30.2	250.6	24.0	48.6	186.2	883.3	1 307.1	2 187.3	46.2	417.4	(NA)	(NA)
1972 Census	178	203	88	29.1	217.8	24.0	46.9	167.0	814.6	1 062.3	1 876.6	44.1	347.5	81	91
INDUSTRY 2033, CANNED FRUITS AND VEGETABLES^s															
1987 Census	463	638	417	65.4	1 160.0	55.8	104.2	878.3	5 434.0	6 450.5	11 868.0	259.8	2 743.5	90	84
1986 ASM	(NA)	(NA)	(NA)	67.4	1 105.2	57.4	102.0	824.0	5 184.8	6 022.7	11 170.7	240.0	2 694.1	(NA)	(NA)
1985 ASM	(NA)	(NA)	(NA)	67.6	1 132.5	57.3	105.4	847.5	4 448.3	6 440.2	10 998.7	264.1	2 869.8	(NA)	(NA)
1984 ASM	(NA)	(NA)	(NA)	69.0	1 134.1	58.5	109.3	854.5	4 129.8	6 353.0	10 389.6	242.4	2 922.1	(NA)	(NA)
1983 ASM	(NA)	(NA)	(NA)	65.2	1 007.9	55.6	103.9	776.9	3 660.8	5 641.4	9 358.1	267.7	2 429.9	(NA)	(NA)
1982 Census	514	715	451	70.5	1 040.1	60.7	113.6	822.4	3 552.7	5 768.1	9 283.4	264.1	2 781.0	89	87
1981 ASM	(NA)	(NA)	(NA)	78.2	1 052.5	68.2	126.7	837.3	3 253.2	5 791.0	9 033.4	6269.8	2 872.9	(NA)	(NA)
1980 ASM	(NA)	(NA)	(NA)	79.8	993.9	68.3	129.0	799.9	2 745.0	5 682.4	8 413.4	243.6	2 802.1	(NA)	(NA)
1979 ASM	(NA)	(NA)	(NA)	82.4	939.6	71.4	135.9	761.8	2 813.6	5 338.1	8 128.3	200.4	2 536.9	(NA)	(NA)
1978 ASM	(NA)	(NA)	(NA)	82.7	852.1	73.1	132.7	682.5	2 816.9	4 425.1	7 236.9	206.9	2 202.7	(NA)	(NA)
1977 Census	648	900	519	82.6	789.8	72.6	135.0	636.6	2 546.1	4 135.3	6 666.5	147.1	2 233.5	90	89
1976 ASM	(NA)	(NA)	(NA)	82.2	728.1	73.3	131.3	582.7	2 342.1	3 888.9	6 217.5	155.6	2 097.4	(NA)	(NA)
1975 ASM	(NA)	(NA)	(NA)	83.6	707.3	74.9	141.4	570.7	2 067.7	3 943.8	5 988.6	185.8	1 925.1	(NA)	(NA)
1974 ASM	(NA)	(NA)	(NA)	85.4	647.7	76.9	145.2	523.0	1 853.3	3 585.7	5 430.7	164.7	1 709.4	(NA)	(NA)
1973 ASM	(NA)	(NA)	(NA)	88.6	595.3	78.0	146.3	476.7	1 898.9	2 765.9	4 644.0	135.4	1 286.5	(NA)	(NA)
1972 Census	765	1 038	621	89.8	559.9	78.8	147.1	447.9	1 625.1	2 414.8	4 043.8	113.1	1 197.0	89	94
INDUSTRY 2034, DEHYDRATED FRUITS, VEGETABLES, AND SOUPS															
1987 Census	104	127	68	10.1	190.5	8.4	15.4	137.6	938.2	927.9	1 829.6	48.2	516.6	93	81
1986 ASM	(NA)	(NA)	(NA)	12.2	221.9	9.9	17.4	153.5	859.7	922.4	1 816.9	647.1	498.9	(NA)	(NA)
1985 ASM	(NA)	(NA)	(NA)	13.2	242.8	11.0	20.2	175.0	839.9	973.5	1 788.0	614.1	529.8	(NA)	(NA)
1984 ASM	(NA)	(NA)	(NA)	11.9	216.4	9.7	17.8	153.1	685.6	932.6	1 686.4	549.4	463.3	(NA)	(NA)
1983 ASM	(NA)	(NA)	(NA)	11.0	210.0	8.8	17.3	151.5	697.0	945.4	1 646.9	44.0	545.2	(NA)	(NA)
1982 Census	119	151	85	13.6	216.9	11.2	19.1	156.2	792.3	985.0	1 745.1	51.7	554.8	94	93
1981 ASM	(NA)	(NA)	(NA)	12.3	186.0	9.8	17.9	132.5	687.4	964.3	1 591.7	54.7	423.1	(NA)	(NA)
1980 ASM	(NA)	(NA)	(NA)	13.5	181.2	10.8	20.5	128.9	701.4	906.1	1 518.3	46.6	416.8	(NA)	(NA)
1979 ASM	(NA)	(NA)	(NA)	14.0	177.6	11.6	21.1	124.4	598.2	758.0	1 311.5	44.8	315.7	(NA)	(NA)
1978 ASM	(NA)	(NA)	(NA)	14.4	171.6	11.8	22.0	122.7	519.4	764.9	1 278.9	54.2	293.5	(NA)	(NA)
1977 Census	143	184	87	14.4	153.9	11.7	22.1	111.5	485.9	685.3	1 142.4	52.5	281.9	94	88
1976 ASM	(NA)	(NA)	(NA)	12.5	122.1	10.5	18.8	88.2	425.6	621.9	1 048.8	47.0	268.5	(NA)	(NA)
1975 ASM	(NA)	(NA)	(NA)	12.9	114.0	10.8	18.7	81.8	405.8	546.1	919.5	43.7	247.5	(NA)	(NA)
1974 ASM	(NA)	(NA)	(NA)	12.8	99.8	10.9	19.3	72.2	417.5	538.8	923.9	38.5	212.6	(NA)	(NA)
1973 ASM	(NA)	(NA)	(NA)	12.2	89.2	10.2	18.5	67.0	315.9	406.0	720.5	16.8	156.7	(NA)	(NA)
1972 Census	133	178	88	12.4	84.3	10.6	19.8	63.0	235.7	351.7	607.3	18.9	140.4	95	88
INDUSTRY 2035, PICKLES, SAUCES, AND SALAD DRESSINGS^s															
1987 Census	341	376	162	21.0	442.5	16.3	32.0	302.9	2 461.7	2 457.5	4 918.3	220.0	549.8	79	84
1986 ASM	(NA)	(NA)	(NA)	23.1	471.3	18.1	34.5	326.0	2 473.2	2 884.1	5 353.2	147.0	710.0	(NA)	(NA)
1985 ASM	(NA)	(NA)	(NA)	22.9	439.3	18.1	34.2	306.4	2 115.6	2 998.0	5 123.2	129.5	606.3	(NA)	(NA)
1984 ASM	(NA)	(NA)	(NA)	22.6	416.9	17.9	34.3	289.5	1 894.2	2 995.5	4 896.3	96.4	626.9	(NA)	(NA)
1983 ASM	(NA)	(NA)	(NA)	22.2	383.6	17.3	33.3	269.7	2 039.6	2 672.5	4 698.4	61.8	588.4	(NA)	(NA)
1982 Census	325	376	155	22.0	371.5	17.4	33.3	260.8	1 736.9	2 532.7	4 268.8	67.5	582.5	68	83
1981 ASM	(NA)	(NA)	(NA)	23.5	350.0	19.4	37.2	247.3	1 437.9	2 452.4	3 889.9	63.2	540.7	(NA)	(NA)
1980 ASM	(NA)	(NA)	(NA)	24.8	344.6	20.7	38.8	249.6	1 384.9	2 511.3	3 906.2	68.7	576.1	(NA)	(NA)
1979 ASM	(NA)	(NA)	(NA)	25.1	318.5	20.8	39.3	231.9	1 302.9	2 326.5	3 630.9	73.6	541.8	(NA)	(NA)
1978 ASM	(NA)	(NA)	(NA)	25.6	291.8	20.6	39.1	216.8	1 243.1	2 104.1	3 342.2	67.5	526.3	(NA)	(NA)
1977 Census	380	438	168	23.5	250.2	18.9	35.7	184.9	986.5	2 003.8	2 996.5	52.3	447.8	69	86
1976 ASM	(NA)	(NA)	(NA)	19.3	180.2	15.8	30.2	129.3	586.0	1 068.7	1 654.4	36.6	278.1	(NA)	(NA)
1975 ASM	(NA)	(NA)	(NA)	19.2	166.5	15.8	30.5	118.3	558.7	1 189.8	1 720.8	36.8	278.7	(NA)	(NA)
1974 ASM	(NA)	(NA)	(NA)	19.3	160.1	16.1	31.6	110.5	470.4	1 118.0	1 586.7	39.5	256.2	(NA)	(NA)
1973 ASM	(NA)	(NA)	(NA)	19.6	144.5	15.8	29.9	100.0	448.9	781.0	1 228.7	24.3	213.2	(NA)	(NA)
1972 Census	429	495	191	20.8	146.2	16.6	32.4	102.2	428.0	738.7	1 166.7	43.4	210.5	80	78
INDUSTRY 2037, FROZEN FRUITS AND VEGETABLES^s															
1987 Census	196	254	193	49.7	786.0	42.7	78.3	590.8	2 982.9	3 665.9	6 599.5	179.1	1 411.		

Table 1. Historical Statistics for the Industry: 1987 and Earlier Years—Con.

[Excludes data for auxiliaries. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendix.]

Year ¹	Com- panies ² (no.)	All establishments ³		All employees		Production workers			Value added by manufac- ture ⁴ (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expendi- tures (million dollars)	Ratios		
		Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					Speci- aliza- tion (per- cent)	Cover- age (per- cent)	
INDUSTRY 2037, FROZEN FRUITS AND VEGETABLES⁵—Con.															
1977 Census ----	187	280	193	46.8	425.9	41.5	78.5	344.7	1 322.5	1 972.0	3 297.5	87.7	724.4	89	89
1976 ASM -----	(NA)	(NA)	(NA)	40.3	342.7	35.2	66.8	273.2	1 188.9	1 641.8	2 830.4	64.5	633.3	(NA)	(NA)
1975 ASM -----	(NA)	(NA)	(NA)	42.8	331.5	37.7	69.0	265.5	1 006.2	1 675.8	2 675.4	71.5	653.3	(NA)	(NA)
1974 ASM -----	(NA)	(NA)	(NA)	44.3	327.2	39.0	75.8	263.5	929.4	1 550.6	2 468.1	80.2	655.7	(NA)	(NA)
1973 ASM -----	(NA)	(NA)	(NA)	44.1	293.8	38.3	75.4	236.6	758.2	1 279.6	2 035.0	75.3	457.3	(NA)	(NA)
1972 Census ----	136	209	191	42.8	261.2	37.6	74.5	208.8	694.6	1 150.4	1 848.8	57.8	401.9	86	91
INDUSTRY 2038, FROZEN SPECIALTIES, N.E.C.⁵ 7															
1987 Census ----	242	278	178	37.1	660.7	29.8	58.0	455.7	2 770.7	2 806.5	5 544.9	182.6	526.0	93	94

Note: Establishments of single unit companies with up to 20 employees (cutoff varied by industry) were excluded from the mail portion of the census. Data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were estimated based on administrative-record information from other agencies in conjunction with industry averages. These establishments accounted for the following percent of total value of shipments: SIC 2032, 3%; SIC 2033, 5%; SIC 2034, 5%; SIC 2035, 6%; SIC 2037, 2%; SIC 2038, 3%.

¹In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1972, see 1972 Census of Manufactures, vol. II, table 1a of the Industry chapter.

²For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during year.

⁴Beginning with the 1982 Census of Manufactures, all respondents were requested to report their inventories at (the lower of) cost or market prior to adjustment to LIFO cost. This is a change from prior Censuses and annual surveys of manufactures in which respondents were permitted to value their inventories using any generally accepted accounting method. Consequently, inventories and value added by manufacture are not comparable to prior-year data.

⁵Data in value of shipments column represent value of production rather than value of shipments. Consequently, formula for computing value added by manufacture was modified to exclude any change between finished products beginning- and end-of-year inventories.

⁶Estimates for new capital expenditures have associated standard error of 15 percent or more and may be of limited reliability. Estimates for other data items are of acceptable reliability.

⁷Industry definition is new for 1987 Census of Manufactures. An explanation of the Standard Industrial Classification revision will appear in the final industry series text that supercedes this report.

Table 2. Product and Product Classes—Quantity and Value of Production by All Producers: 1987 and 1982

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). For meaning of abbreviations and symbols, see introductory text.]

1987 product code	Product	1987				1982			
		Number of companies with production of \$100,000 or more	Total production ¹		Number of companies with production of \$100,000 or more	Total production ¹		Number of companies with production of \$100,000 or more	Total production ¹
			Quantity ²	Value (million dollars)		Quantity ²	Value (million dollars)		
2032--	CANNED SPECIALTIES								
	Total								
20321 --	Canned baby foods, except cereal and biscuits	(NA)	(X)	4 458.6	(NA)	(X)			3 484.6
20321 11	Fruits ----- mil lb.	(NA)	(X)	666.7	(NA)	(X)			596.4
20321 21	Meats ----- do	2	(D)		3	(D)			(D)
20321 31	Vegetables ----- do	2	(D)		3	(D)			66.5
20321 51	Desserts (excluding 100 percent fruit products) ----- do	2	(D)		3	(D)			150.1
20321 71	Juices -----	6	(X)		3	(D)			151.4
20321 98	Other canned baby foods, except cereal and biscuits, but including vegetable and vegetable-meat soups, etc. ----- mil lb.	4	128.1	116.5	4	225.6			115.8
20321 00	Canned baby foods, n.s.k. -----	(NA)	(X)	—	(NA)	(X)			102.8
20322 --	Canned soups, except frozen or seafood: Canned soups, except frozen or seafood -----	18	(X)	(³)	24	(¹)			(³)
20322 00									
20323 --	Canned dry beans ----- Beans with pork, including baked: 7.1 oz to 13 oz (8 oz short, 8 oz tall, No. 1 picnic, etc.) ----- 1,000 cases/48	(NA)	(X)	895.3	(NA)	(X)			735.3
20323 70	13.1 oz to 18 oz (No. 300, No. 303, etc.) ----- 1,000 cases/24	8	7 586.2	118.2	6	1 700.0			21.1
20323 73	18.1 oz to 22 oz (No. 2, etc.) ----- do	21	20 106.6	225.0	26	25 600.0			195.2
20323 74	22.1 oz to 27 oz (jumbo, etc.) ----- do	7	1 949.5	26.4	7	3 000.0			32.3
20323 75	27.1 oz to 40 oz (No. 2-1/2 quart glass, etc.) ----- do	3	401.3	4.7	5	200.0			2.3
20323 78	Other sizes -----	16	3 953.9	58.9	14	3 700.0			54.4
20323 79	Beans with sauce, vegetarian style, including baked: 13.1 oz to 18 oz (No. 300, No. 303, etc.) ----- 1,000 cases/24	14	(X)	65.7	17	(X)			77.1
20323 82									
20323 84	Other sizes ----- Beans, all other dry varieties, including chili con carne containing less than 20 percent meat: 13.1 oz to 18 oz (No. 300, No. 303, etc.) ----- 1,000 cases/24	14	3 963.8	34.9	14	3 800.0			31.4
20323 86									39.2
20323 91	Other sizes -----	17	(X)	45.1	11	(X)			
20323 99	Canned dry beans, n.s.k. -----	(NA)	(X)	3.9	31	19 300.6			160.8
20323 00									115.5
									6.0

See footnotes at end of table.

Table 2. Product and Product Classes—Quantity and Value of Production by All Producers: 1987 and 1982—Con.

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). For meaning of abbreviations and symbols, see introductory text.]

1987 product code	Product	1987			1982		
		Number of companies with production of \$100,000 or more	Total production ¹		Number of companies with production of \$100,000 or more	Total production ¹	
			Quantity ²	Value (million dollars)		Quantity ²	Value (million dollars)
2032—	CANNED SPECIALTIES—Con.						
20324	Other canned specialties and canned nationality foods	(NA)	(X)	32 740.5	(NA)	(X)	32 035.0
20324 61	Spaghetti with meat	7	(X)	(D)	6	(X)	(D)
20324 62	Spaghetti without meat	9	(X)	(D)	11	(X)	67.4
20324 68	Chinese foods (bean sprouts, chop suey, etc.)	5	(X)	(D)	5	(X)	(D)
20324 91	Mincemeat	5	8.0	8.5	6	7.4	8.5
20324 93	Spanish foods (Mexican rice, tortillas, enchiladas, etc.)	13	(X)	105.4	20	(X)	114.4
20324 94	Ravioli	5	(X)	90.0	5	(X)	112.1
20324 96	Macaroni with or without meat	7	(X)	(D)	5	(X)	(D)
20324 97	Canned gravy	4	(X)	(D)	32	(X)	326.0
20324 99	Other canned specialties, including canned puddings (other than canned meats)	29	(X)	309.8	(NA)	(X)	7.8
20324 00	Other canned specialties and nationality foods, n.s.k.	(NA)	(X)	2.4	(NA)	(X)	117.9
20320	Canned specialties, n.s.k.	(NA)	(X)	156.0	(NA)	(X)	69.6
20320 00	Canned specialties, n.s.k., typically for establishments with 20 employees or more (see note)	(NA)	(X)	69.7	(NA)	(X)	48.3
20320 02	Canned specialties, n.s.k., typically for establishments with less than 20 employees (see note)	(NA)	(X)	86.3	(NA)	(X)	20.7
2033—	CANNED FRUITS AND VEGETABLES						
	Total	(NA)	(X)	12 219.0	(NA)	(X)	9 255.3
20331—	Canned fruits (except baby foods)	(NA)	(X)	2 084.5	(NA)	(X)	1 590.6
20331 12	Apples	1,000 cases (basis 24/2 1/2 s)					
20331 13	Applesauce	14	3 825.0	40.3	13	(NA)	40.9
20331 15	do	18	19 751.1	238.8	25	(NA)	209.5
20331 18	Apricots	5	1 321.4	26.3	7	(NA)	37.7
20331 22	Berries, except cranberries	5	(D)	(D)	6	(NA)	(D)
20331 24	Cherries, red pitted	9	562.7	10.1	15	(NA)	21.1
20331 28	Cherries, sweet	12	2 748.0	28.1	13	(NA)	15.8
20331 31	Cranberries and cranberry sauce	4	10 037.6	106.5	7	(NA)	57.0
20331 32	Grapefruit segments	3	(D)	(D)	4	(NA)	(D)
20331 34	Fruit cocktail	7	15 466.2	277.6	7	(NA)	204.7
20331 36	Fruits for salads, including mixed fruits other than fruit cocktail	8	3 682.7	79.7	8	(NA)	28.9
20331 38	Olives, ripe and green ripe, including stuffed (drained net weight)	10	11 326.0	280.2	11	(NA)	189.6
20331 41	Peaches, including spiced	12	23 413.9	368.5	11	(NA)	274.8
20331 57	Pears, including spiced	8	11 756.0	185.1	12	(NA)	134.1
20331 61	Pineapple (all styles)	6	(D)	(D)	3	(NA)	125.9
20331 63	Canned fruit pie mixes	Apple	1,000 cases (basis 24/2 1/2 s)				
20331 65	Cherry	11	1 344.8	28.4	10	(NA)	34.9
20331 69	Peach	9	2 731.2	62.4	10	(NA)	81.0
20331 73	Other fruit pie mixes	6	219.7	6.0	7	(NA)	10.3
20331 77	Other canned fruit	13	1 480.5	40.2	16	(NA)	51.8
20331 00	Canned fruits (except baby foods), n.s.k.	22	2 296.5	45.5	20	(NA)	26.1
		(NA)	(X)	15.1	(NA)	(X)	13.0
20332—	Canned vegetables (except hominy and mushrooms)	(NA)	(X)	2 289.6	(NA)	(X)	2 047.2
20332 03	Beans, green lima	1,000 cases (basis 24/303 s)					
20332 05	Beans, green and wax (including blue lake)	8	3 613.7	28.9	12	(NA)	18.3
20332 15	Carrots	28	49 697.9	358.2	(NA)	(NA)	344.3
20332 35	Vegetable combinations (mixed vegetables, succotash, carrots and peas, vegetable salad, etc.)	14	4 652.5	35.0	18	(NA)	36.1
20332 37	Green peas	18	9 709.1	85.1	18	(NA)	77.2
20332 39	do	20	26 807.9	238.5	30	(NA)	187.4
20332 53	Other peas (blackeye, crowder, purple hull, field, etc.)	4	1 576.6	14.0	8	(NA)	12.6
20332 55	Pumpkin and squash, including pie mix	8	2 535.2	38.1	9	(NA)	32.2
20332 58	Spinach	7	5 182.4	43.5	11	(NA)	46.2
20332 73	Other leafy greens (turnip, kale, mustard, etc.)	3	(D)	(D)	4	(NA)	(D)
20332 74	Pimientos	3	(D)	(D)	5	(NA)	(D)
20332 75	Sweet potatoes, including pie mix	11	6 353.9	65.5	13	(NA)	70.1
20332 76	White potatoes	16	6 141.8	46.5	22	(NA)	52.8
20332 91	Sauerkraut	10	8 552.7	50.3	14	(NA)	38.0
20332 93	Asparagus	13	3 983.2	80.2	12	(NA)	48.2
20332 94	Beets	11	10 050.3	71.8	16	(NA)	69.2
20332 95	Sweet corn, whole kernel	21	56 287.4	437.5	28	(NA)	372.2
20332 97	Sweet corn, cream style	16	12 744.0	101.2	24	(NA)	98.3
20332 99	Tomatoes, including stewed	35	45 451.2	429.1	42	(NA)	358.3
20332 00	Other canned vegetables	25	5 782.5	104.5	40	(NA)	123.7
		(NA)	(X)	32.2	(NA)	(X)	22.2
20333—	Canned hominy and mushrooms	Hominy	1,000 cases (basis 24/303 s)				
20333 15	do	(NA)	(X)	165.5	(NA)	(X)	139.0
20333 21	Mushrooms	9	4 811.9	50.9	7	(NA)	10.3
20333 00	Canned hominy and mushrooms, n.s.k.	12	4 273.0	114.3	13	(NA)	128.3
		(NA)	(X)	4.4	(NA)	(X)	.5
20335—	Canned vegetable juices						
20335 15	Tomato juice, including combinations containing 70 percent tomato juice or more	25	326.6	296.5	37	(NA)	270.3
20335 98	Other vegetable juices	6	2.0	7.4	9	(NA)	265.8
20335 00	Canned vegetable juices, n.s.k.	(NA)	(X)	6.5	(NA)	(X)	3.8
							.7

See footnotes at end of table.

Table 2. Product and Product Classes—Quantity and Value of Production by All Producers: 1987 and 1982—Con.

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). For meaning of abbreviations and symbols, see introductory text.]

1987 product code	Product	1987			1982		
		Number of companies with production of \$100,000 or more	Total production ¹		Number of companies with production of \$100,000 or more	Total production ¹	
			Quantity ²	Value (million dollars)		Quantity ²	Value (million dollars)
2033- --	CANNED FRUITS AND VEGETABLES—Con.						
20336 --	Catsup and other tomato sauces, pastes, etc.	(NA)	(X)	3 022.7	(NA)	(X)	2 174.4
	Tomato sauces, except catsup, chili, barbecue sauce, and spaghetti sauce (excluding pulp, puree, or paste):						
20336 14	7.1 oz to 10 oz (8 oz tall, etc.)	1,000 cases/72--	13	13 332.4	215.1	19	14 970.9
20336 15	Other sizes	1,000 cases (basis 12/12 glass)--	27	61 707.3	319.0	3 5	(NA)
20336 22	Catsup: 14 oz to 32 oz	1,000 cases/24--	13	21 778.8	333.5	18	35 268.0
20336 23	All other sizes, including individual serving sizes	1,000 cases (basis 12/12 glass)--	30	53 335.3	552.4	34	(NA)
20336 31	Spaghetti, pizza, and marinara sauces, with or without other added ingredients, including those with less than 20 percent meat	do--	35	82 711.0	552.9	(1)	(1)
20336 51	Chili sauce	do--	22	12 736.3	88.6	25	(NA)
20336 55	Barbecue sauce	do--	25	24 229.4	270.4	22	(NA)
20336 61	Tomato paste: 4.1 oz to 7 oz (6 oz, etc.)	1,000 cases/48--	5	(D)	(D)	7	7 423.1
20336 63	100.1 oz to 115 oz (No. 10)	1,000 cases/6--	8	(D)	(D)	10	1 774.9
20336 65	All other sizes, including bulk (24 percent NTSS equivalent)	mil lb--	18	1 268.4	411.8	16	*914.3
20336 91	Tomato pulp and puree	1,000 cases (basis 24/303 s)--	20	15 166.6	113.3	25	(NA)
	Catsup and other tomato sauces, pastes, etc., n.s.k.	(NA)	(X)	18.5	(NA)	(X)	120.9
20338 --	Jams, jellies, and preserves	(NA)	(X)	664.1	(NA)	(X)	603.0
	Jams and preserves, pure:						
20338 11	Strawberry	mil lb--	23	223.5	156.1	28	(NA)
20338 15	Other	do--	27	228.9	156.2	33	(NA)
20338 21	Jellies, pure:						
20338 25	Grape	mil lb--	20	180.3	119.7	28	(NA)
20338 31	Other	do--	24	95.5	60.3	32	(NA)
20338 41	Imitation jellies, jams, and preserves	do--	8	55.1	46.2	6	(D)
20338 51	Marmalades	do--	8	18.9	15.1	11	(NA)
20338 61	Fruit butter	do--	8	27.4	34.7	9	(NA)
20338 90	Maraschino cherries, excluding glace and candied	mil gal--	8	10.7	64.6	6	(S)
	Jams, jellies, and preserves, n.s.k.	(NA)	(X)	11.1	(NA)	(X)	31.4
2033A --	Canned fruit juices, nectars, and concentrates	(NA)	(X)	2 342.9	(NA)	(X)	1 409.9
	Juices and nectars, single strength:						
2033A 11	Apple	mil gal--	35	173.8	355.0	40	(NA)
2033A 25	Orange	do--	32	1 275.0	1 196.6	31	(NA)
2033A 31	Grapefruit	do--	26	67.1	224.7	26	(NA)
2033A 41	Prune	do--	9	6.8	24.5	(NA)	(NA)
2033A 78	Other whole fruit juices and mixtures of whole fruit juices	do--	41	118.0	337.7	(NA)	(NA)
2033A 93	Nectars	do--	5	3.4	10.0	6	(NA)
2033A 94	Fruit juices, concentrated, hot pack	mil gal singl st equiv--	15	38.3	177.1	9	9.9
2033A 00	Canned fruit juices, nectars, and concentrates, n.s.k.	(NA)	(X)	17.3	(NA)	(X)	40.4
2033B --	Fresh fruit juices and nectars, single strength	mil gal--	(NA)	(X)	942.4	(NA)	(NA)
	Juices and nectars, single strength:						
2033B 12	Orange	mil gal--	124	271.6	480.2		
2033B 19	Other	do--	66	123.2	377.8		
2033B 21	Concentrated fruit juice, except for fountain use	mil gal singl st equiv--	19	29.3	84.5	(NA)	(NA)
2033B 00	Fresh fruit juices and nectars, single strength, n.s.k.	(NA)	(X)	-			652.2
20330 --	Canned fruits and vegetables, n.s.k.	(NA)	(X)	396.8	(NA)	(X)	368.7
20330 00	Canned fruits and vegetables, preserves, jams, jellies, and juices, n.s.k., typically for establishments with 20 employees or more (see note)	(NA)	(X)	266.6	(NA)	(X)	262.7
20330 02	Canned fruits and vegetables, preserves, jams, jellies, and juices, n.s.k., typically for establishments with less than 20 employees (see note)	(NA)	(X)	942.4	(NA)	(NA)	106.0

See footnotes at end of table.

Table 2. Product and Product Classes—Quantity and Value of Production by All Producers: 1987 and 1982—Con.

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1987 product code	Product	1987			1982		
		Number of companies with shipments of \$100,000 or more	Product shipments ¹		Number of companies with shipments of \$100,000 or more	Product shipments ¹	
		Quantity ²	Value (million dollars)		Quantity ²	Value (million dollars)	
2034- --	DEHYDRATED FRUITS, VEGETABLES, AND SOUPS						
	Total	(NA)	(X)	2 050.2	(NA)	(X)	1 672.0
20342 --	Soup mixes, dried:						
20342 00	Soup mixes (including oriental), dried and dehydrated, and freeze-dried	16	210.0	451.4	31	(S)	332.8
20343 --	Dried and dehydrated fruits and vegetables (including freeze-dried) except soup mixes	(NA)	(X)	1 498.9	(NA)	(X)	FF1 247.3
	Fruits, dried and dehydrated:						
20343 13	Raisins	10	349.9	333.7	9	335.1	342.9
20343 15	Prunes	9	313.4	265.2	11	253.0	178.8
20343 18	Dates	3	5.1	7.4	4	7.3	14.7
20343 21	Apples	7	43.6	56.9	11	25.3	27.4
20343 23	Other dried and dehydrated fruits and fruit peels, including fruit flour, meal, and powder	20	124.1	195.6	13	42.5	62.1
	Dried and dehydrated potatoes (except potato flour), not packaged with other ingredients:						
20343 29	Consumer sizes (1 lb or less)	6	(D)	(D)	6	(D)	(D)
20343 31	Commercial sizes (more than 1 lb)	6	(D)	(D)	(NA)	(D)	(D)
	Vegetables, dried and dehydrated (except potatoes):						
20343 37	Onions	5	134.0	133.8	8	160.5	177.6
20343 38	Vegetable flour, including potato flour	2	1.2	3.5	—	—	—
20343 41	Other dried and dehydrated vegetables	8	128.5	330.0	17	112.2	162.0
20343 00	Dried and dehydrated fruits and vegetables (including freeze-dried) except soup mixes, n.s.k.	(NA)	(X)	—	(NA)	(X)	14.5
20340 --	Dehydrated fruits, vegetables, and soups, n.s.k.	(NA)	(X)	99.9	(NA)	(X)	91.8
20340 00	Dehydrated fruits, vegetables, and soups, n.s.k., typically for establishments with 5 employees or more (see note)	(NA)	(X)	38.2	(NA)	(X)	64.6
20340 02	Dehydrated fruits, vegetables, and soups, n.s.k., typically for establishments with less than 5 employees (see note)	(NA)	(X)	61.7	(NA)	(X)	27.2
1987 product code	Product	1987			1982		
		Number of companies with production of \$100,000 or more	Total production ¹		Number of companies with production of \$100,000 or more	Total production ¹	
	Quantity ²	Value (million dollars)		Quantity ²	Value (million dollars)		
2035- --	PICKLES, SAUCES, AND SALAD DRESSINGS						
	Total	(NA)	(X)	4 488.4	(NA)	(X)	3 252.7
20352 --	Pickles and other pickled products	(NA)	(X)	1 000.2	(NA)	(X)	694.5
	Finished pickles and other pickled products:						
	Cucumber:						
20352 11	Dill	26	93.4	392.8	36	85.8	285.2
20352 13	Sour	10	12.2	45.2	15	*6.5	26.8
20352 15	Sweet	17	110.3	164.4	27	*27.4	108.7
20352 19	Refrigerated pickles, including overnight, half sour, artificially acidified, etc.	15	27.7	87.8	17	20.3	69.7
20352 31	Horseradish (excluding sauce)	6	2.0	12.7			
20352 34	Other finished pickles and pickled products (including mixes, relishes, peppers, onions, mushrooms, etc.)	41	42.9	216.0	41	*34.7	131.1
	Unfinished pickled products:						
20352 71	Unfinished pickles (salt stock)	9	11.9	12.8	11	21.0	22.8
20352 75	Brined cherries	6	3.2	21.6	9	(S)	18.4
20352 98	Other bulk pickled products, such as mushrooms, sauerkraut, etc.	12	14.1	35.6	13	*5.6	17.9
20352 00	Pickles and other pickled products, n.s.k.	(NA)	(X)	11.4	(NA)	(X)	13.9
20353 --	Prepared sauces (except tomato)	(NA)	(X)	901.6	(NA)	(X)	540.0
20353 11	Prepared mustard	44	77.9	256.3	43	*50.6	138.7
20353 51	Other sauces (worcestershire, soy, horseradish, meat, vegetable, seafood, etc.)	87	124.4	639.6	60	**99.9	401.0
20353 00	Prepared sauces (except tomato), n.s.k.	(NA)	(X)	5.8	(NA)	(X)	.3
20354 --	Mayonnaise, salad dressings, and sandwich spreads	(NA)	(X)	2 284.6	(NA)	(X)	1 815.4
	Spoon type dressing:						
20354 11	Spoon dressing	48	107.8	590.2	53	91.4	525.9
20354 23	Mayonnaise	40	117.1	508.1	54	177.2	687.3
20354 29	Other spoon type dressing, including sandwich spreads, refrigerated dressings, and all other semisolid type dressing	34	122.8	683.7	41	*28.0	126.3
20354 35	Pourable dressing (including reduced calorie, cheese, vinegar and oil, etc.)	39	56.6	493.1	(NA)	86.9	464.8
20354 00	Mayonnaise, salad dressings, and sandwich spreads, n.s.k.	(NA)	(X)	9.5	(NA)	(X)	11.2
20350 --	Pickles, sauces, and salad dressings, n.s.k.	(NA)	(X)	302.0	(NA)	(X)	202.7
20350 00	Pickles, sauces, and salad dressings, n.s.k., typically for establishments with 10 employees or more (see note)	(NA)	(X)	131.6	(NA)	(X)	119.5
20350 02	Pickles, sauces, and salad dressings, n.s.k., typically for establishments with less than 10 employees (see note)	(NA)	(X)	170.3	(NA)	(X)	83.2

See footnotes at end of table.

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1987 product code	Product	1987			1982		
		Number of companies with production of \$100,000 or more	Total production ¹		Number of companies with production of \$100,000 or more	Total production ¹	
			Quantity ²	Value (million dollars)		Quantity ²	Value (million dollars)
2037- --	FROZEN FRUITS AND VEGETABLES						
	Total	(NA)	(X)	6 233.9	(NA)	(X)	5 062.0
20371 --	Frozen fruits, juices, ades, drinks, and cocktails	(NA)	(X)	2 485.5	(NA)	(X)	1 860.4
	Frozen fruits:						
20371 35	Strawberries	mil lb	19	228.5	126.0	18	313.8
20371 41	Red sour cherries	do	12	86.9	42.9	11	46.7
20371 55	Apples and applesauce	do	9	98.5	53.7	10	*117.8
20371 57	Berries, including blueberries, raspberries, blackberries, etc.	do	15	64.9	60.0	19	59.2
20371 61	Other frozen fruits	do	23	189.4	113.0	25	167.5
	Frozen fruit and berry juices, concentrated:						
	Orange juice:						
20371 62	Consumer and institutional sizes:						
	6 oz or less	1,000 cases/					
20371 65	6.1 oz to 12 oz	1,000 cases/	17	11 966.3	182.2	13	9 400.0
20371 66	12.1 oz to 24 oz	24	11	21 287.5	430.6	12	22 200.0
20371 68	24.1 oz or more	1,000 cases	10	8 032.2	164.1	11	6 500.0
20371 69	Bulk	mil lb solid	12	6 733.5	167.5	16	5 100.0
	Grape juice:						
20371 70	4.1 oz to 7 oz	1,000 cases/	8	1 832.4	18.4	6	600.0
20371 72	10.1 oz to 13 oz	1,000 cases/	7	2 499.0	32.1	7	2 500.0
20371 74	Other sizes	mil lb solid	5	11.1	11.1	5	(D)
20371 80	Grapefruit juice	do	22	68.6	120.1	19	52.3
20371 83	Other frozen fruit and berry juice, concentrated	do	20	174.4	255.1	26	146.0
	Frozen fruit ades, drinks, and cocktails, concentrated:						
	Lemonade:						
20371 85	4.1 oz to 7 oz	1,000 cases/	5	1 641.4	14.8	6	1 500.0
20371 86	10.1 oz to 13 oz	1,000 cases/	7	7 878.7	51.8	6	3 800.0
20371 87	Other sizes	mil lb solid	6	11.3	11.7	3	32.7
20371 94	All other ades, drinks, and cocktails	do	10	114.8	91.2	8	5.5
20371 97	Citrus pulp	1,000 s tons	16	310.3	35.2	18	(D)
20371 00	Frozen fruits, juices, ades, drinks, and cocktails, n.s.k.		(NA)	(X)	.1	(NA)	(X)
20372 --	Frozen vegetables						
20372 11	Asparagus	mil lb	(NA)	(X)	3 628.3	(NA)	(X)
20372 13	Beans; green, regular, and french cut	do	6	21.1	30.7	9	15.3
20372 21	Lima beans; baby, emerald, and fordhook	do	17	261.9	111.1	22	296.2
20372 25	Broccoli	do	19	110.4	52.6	18	*124.5
20372 31	Brussels sprouts	do	18	330.0	174.6	15	*356.9
20372 33	Carrots	do	25	272.0	78.0	21	186.6
20372 35	Cauliflower	do	20	126.7	73.4	20	67.2
20372 41	Green peas	do	28	375.2	153.5	25	390.8
20372 42	Spinach	do	18	175.3	64.8	15	173.1
20372 45	Vegetable combinations (succotash, peas and carrots, mixed vegetables, vegetables with pasta, etc.)	do	24	612.8	277.5	18	263.7
20372 48	French-fried potatoes	do	15	4 735.1	1 465.6	21	3 676.4
20372 49	Other potato products (patties, puffs, etc.)	do	20	905.1	387.8	28	717.8
20372 53	Sweet cut corn, yellow	do	24	457.7	192.2	21	474.4
20372 55	Sweet cob corn, yellow	do	12	249.6	106.3	14	317.3
20372 61	Southern greens; collards, kale, mustard, and turnip	do	6	76.8	26.4	10	111.2
20372 98	Other frozen vegetables	do	43	685.7	393.9	52	*604.2
20372 00	Frozen vegetables, n.s.k.		(NA)	(X)	9.7	(NA)	(X)
20370 --	Frozen fruits and vegetables, n.s.k.						
20370 00	Frozen fruits and vegetables, n.s.k., typically for establishments with 20 employees or more (see note)		(NA)	(X)	120.1	(NA)	(X)
20370 02	Frozen fruits and vegetables, n.s.k., typically for establishments with less than 20 employees (see note)		(NA)	(X)	76.8	(NA)	(X)
			(NA)	(X)	43.3	(NA)	(X)
2038- --	FROZEN SPECIALTIES, N.E.C.						
	Total	(NA)	(X)	5 176.1	(NA)	(X)	3 124.7
20382 --	Frozen dinners; beef, pork, and poultry pies; and nationality foods						
20382 23	Frozen dinners	mil lb	(NA)	(X)	4 029.5	(NA)	(X)
20382 26	Frozen entrees and side dishes (including macaroni and macaroni-type products, but excluding rice dishes and nationality foods)	do	20	784.6	980.5	15	572.1
20382 28	Frozen rice dishes	do	44	818.1	922.4	27	(S)
20382 31	Frozen beef and pork pies	do	2	(D)	(D)		
20382 35	Frozen poultry pies	do	11	68.3	56.7	11	79.4
	Frozen nationality foods:						
20382 40	Pizza	mil lb	10	829.3	1 215.0	38	714.7
20382 51	Chinese	do	37	49.7	64.1	4	24.0
20382 53	Mexican	do	24	283.4	315.8	26	275.5
20382 55	Italian, excluding pizza	do	25	217.2	286.8	16	80.6
20382 57	All other frozen nationality foods	do	14	67.9	50.1	8	*29.0
20382 00	Frozen dinners, beef, pork, poultry pies, and nationality foods, n.s.k.		(NA)	(X)	10.4	(NA)	(X)

See footnotes at end of table.

Table 2. Product and Product Classes—Quantity and Value of Production by All Producers: 1987 and 1982—Con.

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). For meaning of abbreviations and symbols, see introductory text]

1987 product code	Product	1987			1982		
		Number of companies with production of \$100,000 or more	Total production ¹		Number of companies with production of \$100,000 or more	Total production ¹	
		Quantity ²	Value (million dollars)		Quantity ²	Value (million dollars)	
2038- --	FROZEN SPECIALTIES, N.E.C.—Con.						
20384 —	Other frozen specialties, n.e.c.	(NA)	(X)	978.6	(NA)	(X)	624.3
20384 51	Whipped topping (dairy product substitute, dairy or nondairy base) mil lb	7	458.0	270.3	10	226.4	190.6
20384 59	Other frozen dairy product substitutes, except meringue and similar products	4	(X)	7.1	9	(X)	77.5
20384 63	Frozen waffles, pancakes, and french toast mil lb	8	177.9	170.3	(NA)	(¹)	(¹)
20384 69	Other frozen specialties, except seafood, including soups, etc. do	42	498.3	530.9	44	*562.8	355.8
20384 00	Other frozen specialties, n.s.k.	(NA)	(X)	-	(NA)	(X)	.4
20380 —	Frozen specialties, n.e.c., n.s.k.	(NA)	(X)	168.0	(NA)	(X)	143.8
20380 00	Frozen specialties n.e.c., n.s.k., typically for establishments with 20 employees or more (see note)	(NA)	(X)	110.6	(NA)	(X)	79.9
20380 02	Frozen specialties n.e.c., n.s.k., typically for establishments with less than 20 employees (see note)	(NA)	(X)	57.4	(NA)	(X)	63.9

Note: In 1987 Census of Manufactures, data for establishments of small single unit companies with up to 20 employees were estimated from administrative-record data rather than data actually collected from respondents. Employment cutoffs used for administrative-records for each industry and shipments figures are included in code ending with "002". In both 1987 and 1982 Censuses of Manufactures, products not completely identified on standard forms were coded in appropriate product class (five-digit) followed by "00" or to appropriate product group code (four-digit) followed by "000".

¹Data reported by all producers, not just those with shipments of \$100,000 or more.

²For some establishments, data have been estimated from central unit values which are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * 10 to 19 percent estimated; ** 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

³Data for codes 2032200 and 20324— were combined to avoid disclosure of figures for individual companies.

⁴For 1982, "Cases" were not defined as to size or number per case. Therefore, 1982 Quantities are not comparable to those collected for 1987.

⁵For 1987, data for product code 2038228 was included with product code 2038235.

Table 3. Materials Consumed by Kind: 1987 and 1982

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see Cost of Materials in appendix. For meaning of abbreviations and symbols, see introductory text]

1987 material code	Material	1987		1982	
		Quantity ¹	Delivered cost (million dollars)	Quantity ¹	Delivered cost (million dollars)
	INDUSTRY 2032, CANNED SPECIALTIES				
	Materials, ingredients, containers, and supplies	(X)	2 551.7	(X)	2 194.7
017011	Fresh fruit 1,000 s tons	200.3	39.1	110.1	21.0
	Fresh vegetables:				
016111	Green peas 1,000 s tons	(S)	1.9	*9.5	2.9
013411	White potatoes do	90.2	16.8	63.3	9.8
016141	Tomatoes do	405.2	52.9	123.2	9.8
016131	Sweet corn do	5.3	1.2	68.6	4.6
016121	Green or wax beans do	37.1	7.2	30.6	5.2
018211	Mushrooms mil lb	(D)	(D)	(¹)	(¹)
016191	Other fresh vegetables 1,000 s tons	(D)	(D)	*244.5	35.4
	Sweeteners:				
204604	High fructose corn syrup in terms of solids (HFCS) mil lb	*87.8	10.4	(X)	(¹)
204611	Crystalline fructose (dry fructose) do	.4	.2	(X)	(¹)
204612	Dextrose and corn syrup, including corn syrup solids in terms of dry weight do	75.1	11.4	(X)	(¹)
206011	Sugar (cane and beet) in terms of sugar solids 1,000 s tons	48.7	23.6	*67.7	32.2
	Other materials, ingredients, containers, and supplies:				
203413	Dried beans 1,000 s tons	306.5	146.9	278.7	161.1
204110	Wheat flour 1,000 cwt	1 949.1	19.6	1 536.2	19.5
207006	Fats and oils, all types mil lb	127.9	38.4	74.3	25.8
201013	Fresh, frozen, and prepared meats, other than poultry do	239.0	240.8	196.0	196.9
201501	Dressed poultry dressed wt mil lb	54.9	88.4	40.7	44.6
	Tomato paste (24 percent NTS equivalent) mil lb	466.0	186.9	317.1	109.1
203702	Frozen vegetables (for further processing) do	143.9	81.6	77.0	55.7
275001	Printed labels	(X)	47.6	(X)	42.2
190003	Flexible packaging materials (including retort pouches)	(X)	33.0	(X)	19.3
	Containers:				
322101	Glass 1,000 gross	7 466.1	148.0	**13 247.4	213.1
265001	Paperboard containers, boxes, and corrugated paperboard	(X)	91.8	(X)	75.3
341101	Metal cans	(X)	502.9	(X)	604.9
970099	All other materials, ingredients, containers, and supplies	(X)	552.2	(X)	3434.9
971000	Material, ingredients, containers, and supplies, n.s.k. ²	(X)	81.8	(X)	71.4

See footnotes at end of table.

Table 3. Materials Consumed by Kind: 1987 and 1982—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see Cost of Materials in appendix. For meaning of abbreviations and symbols, see introductory text]

1987 material code	Material	1987		1982	
		Quantity ¹	Delivered cost (million dollars)	Quantity ¹	Delivered cost (million dollars)
INDUSTRY 2033, CANNED FRUITS AND VEGETABLES					
	Materials, ingredients, containers, and supplies	(X)	5 946.7	(X)	5 384.2
	Fresh fruit:				
017411	Oranges	1,000 s tons	1 063.0	230.7	1 895.9
017511	Apples	do	977.9	111.6	1 386.2
017515	Apricots	do	42.4	12.3	52.6
017211	Grapes	do	384.1	82.8	315.3
017521	Peaches	do	442.9	97.5	578.5
017525	Pears	do	375.2	69.3	310.6
017911	Pineapples	do	362.6	53.7	441.7
017412	Grapefruit	do	267.8	51.6	**607.0
017021	Other fresh fruits	do	376.7	144.3	**429.8
	Fresh vegetables:				
016111	Green peas	1,000 s tons	252.0	60.4	256.7
013411	White potatoes	do	118.4	17.6	121.5
016141	Tomatoes	do	7 393.4	454.4	6 617.8
016131	Sweet corn	do	1 646.3	117.4	1 639.2
016121	Green or wax beans	do	427.2	67.8	**448.7
018211	Mushrooms	mil lb	83.3	59.7	**113.2
016191	Other fresh vegetables	1,000 s tons	997.2	153.6	**1 138.3
	Sweeteners:				
204604	High fructose corn syrup in terms of solids (HFCS)	mil lb	705.8	82.0	(X)
204611	Crystalline fructose (dry fructose)	do	37.5	4.4	(X)
204612	Dextrose and corn syrup, including corn syrup solids in terms of dry weight	do	550.4	56.1	(X)
206011	Sugar (cane and beet) in terms of sugar solids	1,000 s tons	127.6	59.2	*332.8
	Other materials, ingredients, containers, and supplies:				
203413	Dried beans	1,000 s tons	61.6	15.6	40.4
207006	Fats and oils, all types	mil lb	74.9	16.7	**69.9
203411	Dried fruit	1,000 s tons	13.7	12.8	31.5
203348	Concentrated fruit juices	mil gal	123.4	576.6	*53.4
203361	Tomato paste (24 percent NTS equivalent)	mil lb	392.2	165.2	412.1
203701	Frozen fruit (for further processing)	do	195.1	96.7	*81.4
203702	Frozen vegetables (for further processing)	do	103.7	14.7	5.7
275001	Printed labels	(X)		55.9	(X)
190003	Flexible packaging materials (including retort pouches)	(X)		82.0	(X)
	Containers:				
265001	Paperboard containers, boxes, and corrugated paperboard	(X)	216.9	(X)	20.9
322101	Glass	1,000 gross	31 482.4	453.2	*22 921.6
341101	Metal cans	(X)		1 079.8	(X)
970099	All other materials, ingredients, containers, and supplies	(X)		914.2	(X)
971000	Materials, ingredients, containers, and supplies, n.s.k. ²	(X)		260.0	(X)
INDUSTRY 2034, DEHYDRATED FRUITS, VEGETABLES, AND SOUPS					
	Materials, ingredients, containers, and supplies	(X)	849.9	(X)	900.7
	Fresh vegetables	1,000 s tons	1 334.9	93.4	2 062.5
016101	Fresh fruits	do	160.3	42.6	*265.5
020411	Dried fruits	do	308.2	311.3	297.0
206011	Sugar (cane and beet)	do	4.6	2.5	*19.1
265001	Paperboard containers, boxes, and corrugated paperboard	(X)		87.8	(X)
970099	All other materials, ingredients, containers, and supplies	(X)		261.9	(X)
971000	Materials, ingredients, containers, and supplies n.s.k. ²	(X)		50.1	(X)
INDUSTRY 2035, PICKLES, SAUCES, AND SALAD DRESSINGS					
	Materials, ingredients, containers, and supplies	(X)	2 296.7	(X)	2 264.6
	Cucumbers	1,000 s tons	704.3	160.2	*617.0
016102	Other fresh vegetables	do	209.0	67.0	*116.9
017011	Fresh fruits	do	62.0	15.0	22.8
203411	Dried fruits	do	.4	.3	.4
204602	Corn syrup	mil lb	392.4	43.9	296.4
206011	Sugar (cane and beet)	1,000 s tons	196.3	32.5	105.5
207006	Fats and oils, all types	mil lb	1 845.1	409.1	1 950.6
265001	Paperboard containers, boxes, and corrugated paperboard	(X)		56.7	(X)
322101	Glass containers	1,000 gross	22 400.4	384.4	*16 109.4
970099	All other materials, ingredients, containers, and supplies	(X)		955.0	(X)
971000	Materials, ingredients, containers, and supplies, n.s.k. ²	(X)		172.6	(X)
INDUSTRY 2037, FROZEN FRUITS AND VEGETABLES					
	Materials, ingredients, containers, and supplies	(X)	3 348.7	(X)	2 624.7
	Fresh fruit:				
017411	Oranges	1,000 s tons	2 028.5	423.5	*5 805.2
017511	Apples	do	184.0	52.1	313.3
017111	Strawberries	do	100.3	61.3	*71.7
017022	Other fresh fruits	do	1 061.8	229.1	2 088.9
	Fresh vegetables:				
016111	Green peas	1,000 s tons	152.2	36.7	*175.2
013411	White potatoes	do	5 218.0	539.5	4 337.0
016131	Sweet corn	do	486.6	46.0	792.0
016121	Green or wax beans	do	119.4	26.3	150.8
016103	Other fresh vegetables	do	1 021.9	280.0	*1 192.9

See footnotes at end of table.

Table 3. Materials Consumed by Kind: 1987 and 1982—Con.

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. For further explanation, see Cost of Materials in appendix. For meaning of abbreviations and symbols, see introductory text]

1987 material code	Material	1987		1982	
		Quantity ¹	Delivered cost (million dollars)	Quantity ¹	Delivered cost (million dollars)
INDUSTRY 2037, FROZEN FRUITS AND VEGETABLES—Con.					
206011	Other materials, ingredients, containers, and supplies:				
	Sugar, cane and beet, in terms of sugar solids	1,000 s tons	76.1	28.1	*56.3
203701	Frozen fruits for further processing	mil lb	73.3	49.2	*82.8
203702	Frozen vegetables for further processing	do	349.6	131.2	370.3
207006	Fats and oil, all types	do	290.4	68.3	**298.5
190003	Flexible packaging materials, except aluminum		(X)	60.2	(X)
265001	Containers:				
	Paperboard containers, boxes, and corrugated paperboard		(X)	263.8	(X)
341101	Metal cans		(X)	119.4	(X)
970099	All other materials, ingredients, containers, and supplies		(X)	864.7	(X)
971000	Materials, ingredients, containers, and supplies, n.s.k. ²		(X)	69.3	(X)
INDUSTRY 2038, FROZEN SPECIALTIES, N.E.C.					
	Materials, ingredients, containers, and supplies		(X)	2 501.0	(NA)
017011	Fresh fruits	1,000 s tons	2.5	1.7	(NA)
016101	Fresh vegetables	do	750.2	171.3	(NA)
202210	Other materials, ingredients, containers, and supplies:				
	Cheese, natural and processed (including imitation cheese and cheese substitutes)	mil lb	260.3	295.1	(NA)
203361	Tomato paste (24 percent NTSS equivalent)	do	230.1	82.5	(NA)
206011	Sugar, cane and beet, in terms of sugar solids	1,000 s tons	25.5	13.6	(NA)
201014	Meat (fresh, frozen, or prepared)	mil lb	382.8	459.8	(NA)
203702	Frozen vegetables for further processing	do	217.7	90.8	(NA)
207006	Fats and oil, all types	do	172.5	44.8	(NA)
204110	Wheat flour	1,000 cwt	10 874.9	135.3	(NA)
190038	Poultry (live, fresh, or prepared)	mil lb	335.8	250.1	(NA)
340005	Aluminum packaging material		(X)	33.4	(NA)
190003	Flexible packaging materials, except aluminum		(X)	96.6	(NA)
265001	Containers:				
	Paperboard containers, boxes, and corrugated paperboard		(X)	287.0	(NA)
341101	Metal cans		(X)	3.8	(NA)
970099	All other materials, ingredients, containers, and supplies		(X)	441.2	(NA)
971000	Materials, ingredients, containers, and supplies, n.s.k. ²		(X)	93.7	(NA)

¹For some establishments, data have been estimated from central unit values which are based on quantity-cost relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: * 10 to 19 percent estimated; ** 20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by (S).

²Total cost of materials of establishments that did not report detailed materials data, including establishments that were not mailed a form.

³For 1982, these materials were included with material code 970099.

APPENDIX

Scope and Coverage and Explanation of Terms

GENERAL

The 1987 Census of Manufactures is the 32nd census of manufacturing establishments conducted in the United States. For 1987, it was conducted as part of the economic censuses, which included the censuses of mineral industries, construction industries, retail and wholesale trades, service industries, selected transportation activities, and minority-owned and women-owned businesses, under authority of title 13 of the United States Code. Title 13 specifies that an economic census be conducted every 5 years to cover years ending in 2 and 7.

SCOPE AND COVERAGE

Establishment Basis of Reporting

The census of manufactures is conducted on an establishment basis. All manufacturing establishments with one paid employee or more at any time during the year are covered by the census of manufactures. Therefore, a company operating at more than one location is required to file a separate report for each location. This report excludes information for separately operated administrative offices, warehouses, garages, and other auxiliary units which service manufacturing establishments of the same company. Where these auxiliary operations are conducted at the same location as the manufacturing operation, they are usually included in the report for the operating manufacturing establishment.

Use of Administrative Records

From a universe of approximately 350,000 manufacturing establishments in the 1987 Census of Manufactures, approximately 150,000 small single-establishment companies were excused from filing reports. Selection of the small establishment nonmail cases was done on an industry-by-industry basis. A variable cutoff was used to determine those establishments for which administrative records were to be used in place of a census report. The cutoffs were selected so the administrative-record cases would account for approximately 3 percent or less of the value of shipments for the industry. These cutoffs were then adjusted so that all single-establishment companies with less than 5 employees were excluded from the mail canvass, while all establishments with more than 20 employees were included. Where establishments in the 5 to 20 employee size range were included in the mail canvass, an abbreviated census form was frequently used.

For these nonmail establishments, (and a small number of larger establishment whose reports were not received at the time the data were tabulated) data on employment, payroll, and receipts were obtained from administrative records of other government agencies rather than from census forms. The administrative-record information was then used in conjunction with industry averages to estimate the data for these establishments. The value of shipments and cost of materials were not distributed among specific products and materials but were included in the product and material "not specified by kind" (n.s.k.) categories.

EXPLANATION OF TERMS

Number of establishments and companies—A separate report was required for each manufacturing establishment (plant) with one employee or more. An establishment is defined as a single physical location where manufacturing is performed. A company, on the other hand, is defined as a business organization consisting of one establishment or more under common ownership or control.

All employees—Includes all full-time and part-time employees on the payrolls at any time during the year. Included are all persons on paid sick leave, paid holidays, and paid vacations. Officers of corporations are included as employees; proprietors and partners of unincorporated firms are excluded. The "all employees" number is the average number of production workers plus the number of other employees in mid-March. The number of production workers is the average of those for midmonth payroll periods of March, May, August, and November.

Production workers—Includes workers up through the working-supervisor level engaged in fabricating, processing, assembling, inspecting, receiving, packing, warehousing, shipping (but not delivering), maintenance, repair, janitorial, guard services, product development, auxiliary production for plant's own use (e.g., power-plant), recordkeeping, and other closely associated services. Truckdrivers delivering ready-mixed concrete are also included in production workers.

Other employees—Includes nonproduction personnel, including those engaged in the following activities: supervision above working-supervisor level, sales (including driver/salespersons), sales delivery (truckdrivers and helpers), advertising, credit collection, installation and

servicing of own product, clerical and routine office functions, executive, purchasing, finance, legal, personnel (including cafeteria, etc.), professional, and technical employees.

Payroll—Includes the gross earnings for the “employees” defined above, such as salaries, wages, commissions, dismissal pay, bonuses, vacation and sick leave pay, and compensation in kind, prior to such deductions as employees’ Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. Respondents were told that in reporting they could follow the definition of payrolls used for calculating the Federal withholding tax.

Production-worker hours—Covers hours worked or paid for at the plant, including actual overtime hours (not straight-time equivalent hours). It excludes hours paid for vacations, holidays, or sick leave when the employee was not at the plant.

Cost of materials—Refers to direct charges actually paid or payable for items consumed or put into production during the year, including freight charges and other direct charges incurred by the establishment in acquiring these materials. It includes the cost of materials or fuels consumed, regardless of whether they were purchased by the individual establishment from other companies, transferred to it from other establishments of the same company, or withdrawn from inventory during the year.

The important components of this cost item are (a) all raw materials, semifinished goods, parts, containers, scrap, and supplies put into production or used as operating supplies and for repair and maintenance during the year; (b) electric energy purchased; (c) fuels consumed for heat, power, or generating electricity; (d) work done by others on materials or parts furnished by manufacturing establishments (contract work); and (e) products bought and resold in the same condition.

Specific materials consumed (table 3)—In addition to the total cost of materials which every establishment was required to report, information was also collected for most manufacturing industries on the consumption of major materials used in manufacturing. These inquiries were restricted to those materials which were important parts of the cost of production in a particular industry and for which cost information was available from manufacturers’ records. Establishments consuming less than a specified amount (usually \$10,000) of a specific material were not requested to report consumption of that material separately. Also, the cost of materials for the small establishments for which administrative records were used was estimated as “not specified by kind” (n.s.k.).

Value of shipments and other receipts—Generally refers to received or receivable net selling values, f.o.b. plant (exclusive of freight and taxes), of all products shipped, both primary and secondary, as well as all

miscellaneous receipts such as receipts for contract work performed for others, installation and repair receipts, sale of scrap, and sale of products bought and resold without further processing. Included are all items made by or for the establishment from materials owned by it whether sold, transferred to other plants of the same company, or shipped on consignment. The net selling value of products made in one plant on a contract basis from materials owned by another was reported by the plant providing the materials.

In a few industries, the value of production or value of work completed is used instead of value of shipments. These industries are identified in the introduction and are footnoted in table 1.

In the case of multiunit companies, the manufacturer was requested to report the value of products transferred to other establishments of the same company at full economic or commercial value, that is, including not only the direct costs of production but also a reasonable proportion of “all other costs” (including company overhead and profit).

Shipments or production of individual products (table 2)—In the 1987 census, detailed shipment information was collected for approximately 11,000 individual products. These products are identified by a seven-digit code and are grouped into approximately 1,500 classes of products, which in turn are primary to 459 four-digit industries. Data at the five-digit product-class level have been collected each year as part of the annual survey of manufactures. Information at the seven-digit level, collected for many industries in the current industrial reports program, is not included in this table.

Value added by manufacture—This measure of manufacturing activity is derived by subtracting the cost of materials, supplies, containers, fuel, purchased electricity, and contract work from the value of shipments for products manufactured plus receipts for services rendered. The result of this calculation is then adjusted by the addition of value added by merchandising operations (that is, the difference between the sales value and cost of merchandise sold without further manufacturing, processing, or assembly) plus the net change in finished goods and work-in-process inventories between the beginning and end of the year.

For those industries where value of production is collected instead of value of shipments (see footnote in table 1), value added is adjusted only for the change in work-in-process inventories between the beginning and end of the year. For those industries where value of work done is collected, the value added does not include an adjustment for the change in finished goods or work-in-process inventories.

Value added avoids the duplication in the figure for value of shipments which results from the use of products of some establishments as materials by others. Value

added is considered to be the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Expenditures for new plant and equipment—Establishments in operation and any known plants under construction were asked to report their expenditures for (a) permanent additions and major alterations to manufacturing establishments and (b) new machinery and equipment used for replacement and additions to plant capacity if they are of the type for which depreciation accounts are ordinarily maintained.

These totals exclude expenditures for used plant and equipment, expenditures for land, and cost of maintenance and repairs charged as current operating expenses. Data for used plant and equipment will be published in the final industry bulletin.

End-of-year inventories—Comprised of (a) finished products; (b) work-in-process; and (c) materials, supplies, fuels, etc. Beginning in 1982, respondents were asked to report their inventories at (the lower of) cost or market prior to adjustment to LIFO cost. This is a change from prior years in which respondents were permitted to value their inventories using any generally accepted accounting method.

Therefore, 1982 through 1987 data for inventories are not strictly comparable to prior-year data.

Specialization and coverage ratios—An establishment is classified in a particular industry if its shipments of primary products of the industry exceed in value its shipments of the products of any other single industry. An establishment's shipments include those products assigned to an industry (primary products), those considered primary to other industries (secondary products), and receipts for miscellaneous activities (merchandising, contract work, resales, etc.). The following ratios have been developed to measure the relationship of primary product shipments to the data on shipments for the industry shown in table 1 and data on product shipments shown in table 2.

Specialization ratio—Represents the ratio of primary product shipments to total product shipments (primary and secondary, excluding miscellaneous receipts) for the establishments classified in the industry.

Coverage ratio—Represents the ratio of primary products shipped by the establishments classified in the industry to the total shipments of such products that are shipped by all manufacturing establishments, wherever classified.



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